Message

From: Wu, Jennifer [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=885E149E9BDD4094BF34508D7454CDFA-WU, JENNIFER

Sent: 9/13/2018 12:10:31 AM

To: Abbotts, John [Abbotts.John@epa.gov]; Drabek, John [Drabek.John@epa.gov]

Subject: RE: oil and grease sheen v mg/L

Thanks, John A and D. I talked with Susan, and I'm going to put a limit of 5 mg/L in since that was what was used in other Ecology permits and they'll be the 401 certifying agency.

From: Abbotts, John

Sent: Wednesday, September 12, 2018 10:13 AM

To: Wu, Jennifer < Wu.Jennifer@epa.gov>; Drabek, John < Drabek.John@epa.gov>

Subject: RE: oil and grease sheen v mg/L

Hello,

Proceeding on Jennifer's request below to check Dru's files on the G drive, I also found the attached pdf with monitoring data on O&G from OR Bonneville Project. The monitoring is for stormwater, but O&G is measured as Total Hydrocarbons, and the "benchmark" (stormwater permits are more likely to have benchmarks than effluent limits) is 10 mg/L.

One has to rotate the pdf to see some of the details, but the 10 mg/L (ppm) benchmark is only exceeded a few times, and one of the short reports on the oil/water separator notes that for hydrocarbons, "Anything over 8 ppm trips a valve and the discharge flow is diverted to the lagoon,"

I am guessing this report of actual experience at the Bonneville Project, along with consultation with OR and WA, may have led Dru to settle on

10 mg/L for O&G at hydroelectric dams.

Please let me know if you want more searching for Dru's rationale.

John Abbotts, SEE employee [In-House Support Contractor] Office of Water and Watersheds, U.S. EPA Region 10, Seattle WA 98101 Phone: 206-553-8530; Fax: 206-553-1280

From: Wu, Jennifer

Sent: Wednesday, September 12, 2018 9:11 AM

To: Drabek, John < Drabek. John@epa.gov>; Abbotts, John < Abbotts. John@epa.gov>

Subject: RE: oil and grease sheen v mg/L

Thanks to both of you. I'll take a look at the reports.

From: Drabek, John

Sent: Wednesday, September 12, 2018 8:32 AM

To: Wu, Jennifer < Wu.Jennifer@epa.gov>; Abbotts, John < Abbotts.John@epa.gov>

Subject: FW: oil and grease sheen v mg/L

The Barnacle Point Shipyard permit I wrote equates 5 mg/L to no visible sheen.

John Drabek, PE USEPA Region 10 NPDES Permits Unit 206-553-8257 Drabek.john@epa.gov

From: Drabek, John

Sent: Wednesday, September 12, 2018 8:13 AM

To: Wu, Jennifer < Wu.Jennifer@epa.gov>; Abbotts, John < Abbotts.John@epa.gov>

Subject: FW: oil and grease sheen v mg/L

The Everett Shipyard Permit I wrote equates 5 mg/L to no visible sheen.

John Drabek, PE USEPA Region 10 NPDES Permits Unit 206-553-8257 Drabek.john@epa.gov

From: Drabek, John

Sent: Wednesday, September 12, 2018 8:10 AM

To: Wu, Jennifer < Wu.Jennifer@epa.gov>; Abbotts, John < Abbotts.John@epa.gov>

Subject: FW: oil and grease sheen v mg/L

John Drabek, PE USEPA Region 10 NPDES Permits Unit 206-553-8257 Drabek.john@epa.gov

From: Drabek, John

Sent: Wednesday, September 12, 2018 8:09 AM

To: Abbotts, John Abbotts, John Abbotts.John@epa.gov>; Wu, Jennifer Wu, Jennifer

Subject: RE: oil and grease sheen v mg/L

Susan was correct. I wrote a permit for Dakota Creek Industries that equated 5 mg/L to no visible sheen. John see if this statement in the current fact sheet for Dakota Creek Industries.

John Drabek, PE USEPA Region 10 NPDES Permits Unit 206-553-8257

Drabek.john@epa.gov

From: Abbotts, John

Sent: Tuesday, September 11, 2018 6:06 PM
To: Wu, Jennifer < Wu.Jennifer@epa.gov >
Cc: Drabek, John < Drabek.John@epa.gov >
Subject: RE: oil and grease sheen v mg/L

Thanks Jenny,

HWMBO carried out his usual betrayal by asking me to search the web, and gave no hint of material on the G drive. I have looked at two memos on the topic, Path G/.../NPU/Hydroelectric.Permit -Idaho/Basis for WQSLimits_Monitoring/Basis for OilGrease_Limit_Monitor_Requirements.

Attached in Word is a Memo to File on Dru's conversation with OR on why they use 10 mg/L.

OTOH, also attached is a pdf on O&G effluent limits, dated March 1974.

Even at that ancient history date, the memo includes the following on page 1:

"In passing, we should also note that discharge at levels at or below 10 mg/l oil and grease does not guarantee against sheen."

On this basis, I conclude that 5 mg/L, as a current method limit, may be a more sensitive indicator for no sheen.

Also in the folder, pathway above, is a pdf that may contain O&G sample data from Bonneville. I can look at that tomorrow, as I have already exceeded my time limit as ordered by HWMBO.

John Abbotts, SEE employee [In-House Support Contractor] Office of Water and Watersheds, U.S. EPA Region 10, Seattle WA 98101 Phone: 206-553-8530; Fax: 206-553-1280

From: Wu, Jennifer

Sent: Tuesday, September 11, 2018 5:39 PM
To: Abbotts, John < <u>Abbotts, John@epa.gov</u>>
Cc: Drabek, John < <u>Drabek, John@epa.gov</u>>
Subject: RE: oil and grease sheen v mg/L

Thanks - Are there other sources than what Dru found or had in her permit? Maybe not. She compiled what she had in the G: (EPA HQ memos, OR and WA permits).

Folks from the EPA oil spill team were looking at a basis to use for a 10 mg/L vs 5 mg/L when we're trying to control for visible oil sheen.

From: Abbotts, John

Sent: Tuesday, September 11, 2018 5:21 PM
To: Wu, Jennifer < Wu.Jennifer@epa.gov >
Cc: Drabek, John < <u>Drabek.John@epa.gov ></u>
Subject: oil and grease sheen v mg/L

Hello,

HWMBO directed me to find equivalences for the subject line item.

I found the information pasted below on pages pdf 23 and 24, respectively, of the FS for the draft GP for ID hydro facilities, IDG360000; ScreenShots below.

Page 23 describes the 10 mg/L O&G limit as equivalent to OR and WA narrative conditions.

Then page 24 describes 5 mg/L as the minimum level applicable to method requirements for O&G.

I conclude that the method quantitation limit may be as low as 5 mg/L.

Please let me know if you want more searching.

John Abbotts, SEE employee [In-House Support Contractor]

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